User manual FA1 ..... updated 11/2009

Definition of Full Automatic FA1

Using the Full Automatic FA1 loose bolts can be tightened with a single tool. When the bolting is done an optical and acoustical signal comes up.

The Full Automatic works with following tools: Stealth without valves, Avanti, MXT, XLT, XLCT and previous models.

Change of tools or torque pressure

With the beginning of a new bolting job with a different torque or a different tool the pump has to be setup every time on these.

For doing a new setup the pump (resp. the electronic itself) has to be switched off and then on again. At the 400V-edition the switch built into the electronic box only switches off the electronic itself. It does not disconnect the pump from mains.

The setup has to be done as described after every restart.

Operating temperature

The pump resp. the oil needs to be above 20°C/68°F for secure and correct automatic operation. A safety check inhibits the automatic operation below this temperature. This safety check is indicated by a blinking of the lamp in the electronic box.

When the pump does not react on pressing the automatic button (⏫) the temperature is too low. Then the pump has to be warmed up using the manual mode. If it is high enough the lamp shines constantly.

1-Tool-Full-Automatic

For operating the pump following steps are to be accomplished:

Adjusting the torque-pressure and measuring the tool:

After switching on the pump this setup is possible.

Connect the tool to the pump. Do not apply it to the screws. Vent the system by driving back and forth several times.

Press and hold 'Automatic'-button (⏏). The pump will build up pressure and the red lamp within the remote control begins to shine.

Adjust the torque-pressure and fixate it.

Keep the 'Automatic'-button (⏏) pressed and press the 'Manual'-button (↑) about one second additionally to confirm the torque-pressure. Thereafter the pump will measure the tool and light up the green lamp when the setup is completed.

Tightening using the automatic mode:

Place the tool onto the next screw.

Press and hold 'Automatic'-button (⏏). The loose bolt is being tightened up to torque pressure.

When the bolting is done a horn sounds and the green lamp within the remote control comes up.

The tool can be placed onto the next screw.

Re-adjustment the torque-pressure and measuring the tool:

The pumps automatically re-adjust the changing of the done adjustment while tightening a flange. In special cases this automatical re-adjustment is not possible.

Ensuring a safe work the pumps signals a necessare re-adjustment by double short horn signal and switching the red lamp on.

In this case the operator has to place the tool onto the ground and adjust the torque-pressure and measure the tool like shown above.

Tightening of pre-torqued screws

Pre-torqued screws can be tightened using the Full-Automatic.